

BOARD OF EDITORS

IJTP

EDITOR-IN-CHIEF & HONORARY SECRETARY

S P Sen Gupta

Indian Association for the Cultivation of Science, Calcutta-700 032

CONDENSED MATTER & MATERIALS PHYSICS

S C Agarwal

*Department of Physics, Indian Institute of Technology,
Kanpur-208 016, Uttar Pradesh*

A K Barua

*Energy Research Unit, Indian Association for the
Cultivation of Science, Kolkata-700 032*

A N Basu

Jadavpur University, Kolkata-700 032

S N Behera

*Institute of Physics, Sachivalaya Marg,
Bhubaneswar-751 005, Orissa*

D Chakravorty

*Indian Association for the Cultivation of Science,
Kolkata-700 032*

K Chattopadhyay

*Metallurgical Engg Department, Indian Institute of Science,
Bangalore-560 012*

Robert Chivers

*Visiting Professor, Institute of Sound & Vibration,
University of Southampton, United Kingdom*

Arup Ray Choudhury

*Physics Department, Indian Institute of Science,
Bangalore-560 012*

Chandan Das Gupta

*Physics Department, Indian Institute of Science,
Bangalore-560 012*

B G Ghosh

*Saha Institute of Nuclear Physics,
1/AF, Bidhan Nagar, Kolkata-700 064*

ASTROPHYSICS, ATMOSPHERIC & SPACE PHYSICS

Sandip K Chakrabarti

*S N Bose National Centre for Basic
Sciences, JD-Block, Sector-III, Salt Lake, Kolkata-700 091*

Ashish Das Gupta

*Institute of Radio Physics & Electronics, University of Calcutta,
92 A P C Road, Kolkata-700 009*

K K Mahajan

*National Physical Laboratory, Dr K S Krishnan Road,
New Delhi-110 012*

A R Rao

*Tata Institute of Fundamental Research,
Homi Bhabha Road, Mumbai-400 005*

R Sridharan

*Space Physics Laboratory, Vikram Sarabhai Space Centre,
Trivandrum-695 022*

NUCLEAR PHYSICS

Ranjan Bhowmik

Nuclear Science Centre, Aruna Asaf Ali Marg, New Delhi-110 067

S S Kapoor

Bhabha Atomic Research Centre, Trombay, Mumbai-400 085

V S Ramamurthy

*Department of Science & Technology, Technology Bhavan,
New Mehrauli Road, New Delhi-110 016*

PARTICLE PHYSICS

Sumit Das

*Tata Institute of Fundamental Research,
Homi Bhabha Road, Mumbai-400 005*

Anjan Joshipura

Physical Research Laboratory, Navrangpura, Ahmedabad-380 009

Avinash Khare

*Institute of Physics, Sachivalaya Marg, Bhubaneswar-751 005,
Orissa*

Partha Sarathi Mitra

*Saha Institute of Nuclear Physics
1/AF, Bidhan Nagar, Kolkata-700 064*

Amitava Raychaudhuri

*Physics Department, University of Calcutta,
92, A. P. C. Road, Kolkata-700 009*

STATISTICAL PHYSICS

J K Bhattacharjee

*Theoretical Physics Department, Indian Association for the
Cultivation of Science, Kolkata-700 032*

Bikas K Chakrabarti

*Saha Institute of Nuclear Physics,
1/AF, Bidhan Nagar, Kolkata-700 064*

Abhijit Mookerjee

*S N Bose National Centre for Basic Sciences,
JD-Block, Sector-III, Salt Lake, Kolkata-700 091*

ATOMIC & MOLECULAR PHYSICS

Yehuda B Band

*Department of Chemistry & Physics,
Ben-Gurion University,
Beer Sheva, Israel-84105*

Deepak Mathur

*Tata Institute of Fundamental Research,
Homi Bhabha Road, Mumbai-400 005*

S C Mukherjee

*Theoretical Physics Department,
Indian Association for the Cultivation of Science,
Kolkata-700 032*

A N Tripathi

*Physics Department, Roorkee University, Roorkee-247 667,
Uttar Pradesh*

BIOPHYSICS**Chanchal Das Gupta***Department of Biophysics, Molecular Biology & Genetics,
University College of Science, 92, A P C Road, Kolkata-700 009***J K Datta Gupta***Saha Institute of Nuclear Physics,
1/AF, Bidhan Nagar, Kolkata-700 064***T P Singh***Biophysics Department, All India Institute of Medical Sciences,
Ansari Nagar, New Delhi-110 029***NON-LINEAR DYNAMICS & COMPLEX SYSTEMS****V Balakrishnan***Indian Institute of Technology, Madras,
Chennai-600 036***M Lakshmanan***Department of Physics & Centre for Nonlinear Dynamics,
Bharathidasan University, Tiruchirapalli-620 024, Tamil Nadu***D S Ray***Indian Association for the Cultivation of Science,
Jadavpur University, Kolkata-700 032***Yashwant Singh***Physics Department, Banaras Hindu University,
Varanasi-221 005***OPTICS & SPECTROSCOPY****G S Agarwal***Physical Research Laboratory, Navrangpura,
Ahmedabad-380 009***T N Misra***Spectroscopy Department, Indian Association for the Cultivation of
Science, Kolkata-700 032***A P Roy***Bhabha Atomic Research Centre, Trombay, Mumbai-400 085***A K Sood***Physics Department, Indian Institute of Science,
Bangalore-560 012***PLASMA PHYSICS****K Avinash***Institute for Plasma Research, BHAT,
Gandhinagar-382 424***A C Das***Physical Research Laboratory, Navrangpura,
Ahmedabad-380 009***Rabindranath Pal***Plasma Physics Division, Saha Institute of Nuclear Physics,
Sector-I, Block-AF, Bidhan Nagar, Kolkata-700 064***Avijit Sen***Institute for Plasma Research, BHAT,
Gandhinagar-382 424***RELATIVITY & COSMOLOGY****Ashit Banerjee***Physics Department, Jadavpur University,
Kolkata-700 032***S Banerji***26, Sarkar Lane, Kolkata-700 007 (Res.)***N K Dadhich***Inter University Centre for Astronomy & Astrophysics,
Post Bag No 4, Ganeshkhind, Pune-411 007***B K Datta***ICSC-World Laboratory (LAUSANNE) Calcutta Branch, Suite-17,
108/8, Maniktala Main Road, Kolkata-700 054***ASSOCIATE EDITORS (HONORARY)****IJJP***(from IACS)***Chitra Basu****K Rai Dastidar****S P Bhattacharyya****T Ganguly****S S Bhattacharyya****Subodh Dey****Parsathi Chatterjee****A Ghosh****S Chakravorty****T Kar****Partha Chaudhury****Kanika Roy***(from other Institutions)***C R Mandal***Department of Physics, Jadavpur University,
Kolkata-700 032***Surajit Sen Gupta***S N Bose National Centre for Basic Sciences, JD-Block Sector III
Salt Lake, Kolkata-700 091***Asok Sen***Saha Institute of Nuclear Physics, 1/AF, Bidhan Nagar
Kolkata-700 064***Sujata Tarafdar***Department of Physics, Jadavpur University,
Kolkata-700 032***ASSOCIATE EDITOR****Dr. (Mrs) K K Datta***Scientist II***STAFF EDITOR****A N Ghatak***Technical Officer*

N.B. One copy of the manuscript may be submitted through an appropriate member of the Board of Editors. Authors may kindly see 'Notes for Contributors' printed at the end of this volume.